

Title (en)
FUEL INJECTOR FOR THE COMBUSTION CHAMBER OF A GAS TURBINE

Publication
EP 0122526 B1 19870520 (DE)

Application
EP 84103522 A 19840330

Priority
CH 198883 A 19830413

Abstract (en)
[origin: US4761958A] Self-excited vibrations can occur in the combustion chambers of gas turbines, which vibrations are due to modulation of the quantity of gaseous fuel or fuel/air mixture as the fuel is injected through a nozzle and into the combustion chamber. The modulation results from pressure fluctuations that occur in the plane of the nozzle. The new fuel lance simultaneously permits both de-coupling of the fuel line in order to avoid combustion chamber vibrations and the possibility of fuel quantity control. The fuel lance comprises an adjustable throttle body that is provided with fuel passage openings and a plunger, the penetration depth of which plunger relative to that of the throttle body is a measure of the fuel quantity flowing therethrough.

IPC 1-7
F23D 14/20

IPC 8 full level
F23R 3/28 (2006.01); **F23D 14/20** (2006.01)

CPC (source: EP US)
F23D 14/20 (2013.01 - EP US); **F23D 2206/10** (2013.01 - EP US); **F23D 2210/00** (2013.01 - EP US)

Cited by
EP1096201A1; US5218824A; EP0962699A3; EP0571984A1; EP0394629A3; US6688109B2; US9945725B2; US6615587B1; WO0133138A1; WO0034714A1; WO0034715A1

Designated contracting state (EPC)
CH DE GB LI NL

DOCDB simple family (publication)
EP 0122526 A1 19841024; **EP 0122526 B1 19870520**; DE 3463836 D1 19870625; JP H0531050 B2 19930511; JP S59197736 A 19841109; US 4761958 A 19880809

DOCDB simple family (application)
EP 84103522 A 19840330; DE 3463836 T 19840330; JP 7106684 A 19840411; US 80260485 A 19851125